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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,144	12/05/2006	Martin Bergsmann	57036/M521	1968
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CHRISTIE, PARKER & HALE, LLP PO BOX 7068 PASADENA, CA 91109-7068			EXAMINER MEHMOOD, JENNIFER	
			ART UNIT	PAPER NUMBER
			2612	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/566,144

Applicant(s)

BERGSMANN ET AL.

Examiner

Jennifer A. Mehmood

Art Unit

2612

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 March 2007.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 and 26-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-24 and 26-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 January 2006 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 12/5/06; 1/27/06.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

Drawings

1. The drawings are objected to under 37 CFR 1.83(a) because they fail to show text labeling for the boxes in figures 1-5 as described in the specification. For example, label boxes similar to "clock", item 35, "ROM", item 34, "RAM", item 33, and "timer", item 37 as shown in figure 5. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d).

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claims 13 and 19 are objected to because of the following informalities: delete a portion of the phrase "at least one of one the", and change "oft" to "of", respectively. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-6, 9, 11-13, 16, 17, 20-24, 26-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Niemiec et al. (US 2003/0063524).

For claim 1, Niemiec discloses a device for storing of at least one of a solid, a liquid or a gaseous object, the device having at least one compartment configured to contain at least one object, wherein one of placing the object in the compartment or removing the object from the compartment triggers an electrically readable signal (parags 0062 and 0065; Fig. 4, items 118, 402, 404).

For claim 2, Niemiec discloses the compartment is mechanically changeable for removal of the object from the compartment or placing the object in the compartment (parag 0066).

For claim 3, Niemiec discloses the device comprises an electrical data memory including at least one memory cell assigned to the compartment (parags 0065 and 0066).

For claim 4, Niemiec discloses the device further comprises evaluation electronics for reading the memory value from the electrical data memory (Fig. 4, item 404).

For claim 5, Niemiec discloses the compartment is electrically coupled to the memory cell (parag 0066; Fig. 4, items 404, 118, and 402).

For claim 6, Niemiec discloses the compartment includes an interconnect, the interconnect being part of the memory cell, and being configured to be substantially destroyed after the mechanical change of the compartment (parag 0066 – series of internal circuits which may be broken through the application of the voltage exceeding the capability of the circuit).

For claim 9, Niemiec discloses the evaluation electronics comprise a shift register for reading the memory value from the electrical data memory (parags 0062 and 0065; Fig. 4, item 404).

For claim 11, Niemiec discloses an interface of the evaluation electronics, the interface having one or more contacts for providing data transmission (Fig. 4, items 402

and 404); and an external reader configured to provide data transmission through the one or more contacts of the interface (Fig. 4, item 404; parag 0065).

For claim 12, Niemiec discloses the evaluation electronics comprise a timer configured to generate information indicative of the time the compartment is mechanically changed (parags 0048 and 0059).

For claim 13, Niemiec discloses at least one of the memory cell, the interconnect or the evaluation electronics are integrated in a substrate of the device (parags 0058, 0059 and 0062).

For claim 16, Niemiec includes an assembly of layers, at least one of the layers of the assembly of layers being configured to be used for forming an electrical function (parag 0061; Fig. 1, item 118).

For claim 17, Niemiec discloses at least one of active electrical components or passive electrical components are integrated in the assembly of layers (parag 0061; Fig. 1, item 118).

For claim 20, Niemiec discloses the device is a pack, the pack having one or more compartments formed therein, and having the data memory and the evaluation electronics integrated in a substrate of the pack (parag 0062).

For claim 21, Niemiec discloses the substrate of the pack is configured to be a carrier for at least one of the interconnect or the evaluation electronics (parags 0061 and 0062).

For claim 22, Niemiec discloses the evaluation electronics are integrated in a chip having an integrated voltage source, the chip being attached to the pack (parags 0059, 0062, and 0066).

For claim 23, Niemiec discloses the device is a blister pack (parag 0011; Fig. 1, item 102).

For claim 24, Niemiec discloses the blister pack includes one or more blisters, each of the one or more blisters being configured to communicate with a memory cell (Fig. 4, items 118, 402, sensor interface and memory).

For claim 26, Niemiec discloses the device being configured to generate an electrically readable signal after there is a mechanical change of the compartment (parag 0066).

For claim 27, Niemiec discloses the memory cell adopts a memory value after the mechanical change of the compartment (parag 0065).

For claim 28, Niemiec discloses an interface of the evaluation electronics (Fig. 4, items 404, sensor interface), the interface being configured to provide data transmission (parag 0062); and an external reader configured to provide data transmission with the interface (Fig. 4, item 404).

For claim 29, Niemiec discloses the evaluation electronics being configured to store the time at which the compartment is mechanically changed (parag 0048).

For claim 30, Niemiec discloses the active electrical components includes at least one of one or more transistors or circuits formed from the one or more transistors, and wherein the passive electrical components includes at least one of one or more

diodes, capacitors, inductors or resistors or circuits formed from the one or more diodes, capacitors, inductors or resistors (parags 0012, 0061; Fig. 1, item 118).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Niemiec et al. (US 2003/0063524).

Niemiec discloses evaluation electronics where a voltage is applied to the circuit and a terminal for serial data transmission. While Niemiec does not specifically disclose a separate terminal for the voltage and the serial data transmission, it would have been an obvious design choice to provide a second, separate terminal for the voltage to ensure that proper data is transmitted without interference from external sources.

7. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Niemiec et al. (US 2003/0063524) and further in view of Parkhurst et al. (US 5,412,372).

Niemiec discloses a mechanical change of the compartment by breaking conductor 118; however, Niemiec does not disclose that the compartment forms a capacitance. Parkhurst, however, discloses that the compartment forms either a capacitance or inductance being substantially changed by breaking an object

compartment (col 13, Ins 33-59). It would have been obvious to one of ordinary skill in the art, at the time the invention was made to include a seal that triggers upon either an inductive or capacitive change thereby immediately sending a notification that the seal was ruptured to indicate tampering of the seal.

8. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Niemiec et al. (US 2003/0063524) and further in view of Gunnarsson (US 5,862,222).

Niemiec discloses the electrical data memory is a programmable read only memory, but Niemiec does not disclose the data memory to be a write once read only memory. Gunnarsson, however, uses a write once read only memory for the memory cell of a transponder (col 2, Ins 58-62). It would have been obvious to include a write once read only memory so that during the manufacturing process, pertinent information is added to the transponder's memory without having anyone else alter the information (i.e. an end user).

9. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Niemiec et al. (US 2003/0063524) and further in view of Collins et al. (US 6,392,544).

Niemiec discloses a data memory, an interconnect, and evaluation electronics, but does not disclose that these components are formed of polymer electronics. Collins, however, includes components formed of polymer electronics (col 6, Ins 24-39; Fig. 3, item 300). It would have been obvious to include components formed of polymer electronics to ensure a secure interconnection between organic and inorganic components on a substrate.

10. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Niemiec et al. (US 2003/0063524) and further in view of Qiu et al. (US 6,696,953).

Niemiec discloses a substrate that includes conductive layers, but does not specifically disclose that the conductive layer is aluminum (parag 0061). Qiu, however, discloses conductive layers that include aluminum (Figs. 6 and 7; col 4, lns 48-59). It would have been obvious to include an aluminum layer to enhance conductivity properties to ensure proper signal communication.

11. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Niemiec et al. (US 2003/0063524) and further in view of Beigel et al. (US 6,888,502).

Niemiec discloses a substrate with interconnects, but does not disclose that the substrate includes printed-on organics. Beigel, on the other hand, discloses a substrate that includes printed-on organics (col 6, lns 50-62; Fig. 1, item 32). It would have been obvious to include printed-on organics to reduce environmental waste.

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Yarin et al. (US 2002/0067270) and Carrender et al. (US 2004/0008123) disclose a medicament blister packet with a sensor to detect if a blister has been broken.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer A Mehmood whose telephone number is (571) 272.2976. The examiner can normally be reached on M-F from 8:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Daniel Wu, can be reached at (571) 272.2964. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jennifer A. Mehmood
January 8, 2008


BENJAMIN C. LEE
PRIMARY EXAMINER